14. (Amended)   A method of scheduling activities comprising:

defining discrete and continuous constraints related to the activities, wherein the
continuous constraints are related to other variables by linear mathematical relationships;

representing selected scheduling decisions as discrete and continuous constraints; and

scheduling activities in accordance with [an]integrated implications of the discrete and
continuous constraints.

15. (Amended)   The method of claim 14 and further comprising:

scheduling activities in accordance with previous scheduling decision constraints;

identifying infeasibilities during the scheduling of activities; and[.]

scheduling activities in accordance with identified infeasibilities.

16. (Amended)   The method of claim 15 and further comprising:

identifying a culprit activity which resulted in an infeasibility[.]; and

backtracking to the culprit and rescheduling the culprit activity.

19. (Amended) A method of modifying scheduled tasks comprising:

updating information related to the scheduled tasks;

modifying a list of activities required to accomplish the tasks based on the updated
information;

optionally modifying the activities into sets of smaller activities;

modifying discrete constraints related to the activities;

modifying continuous constraints related to the activities, wherein the continuous
constraints are related to other variables by linear mathematical relationships; and

scheduling the activities and smaller activities based on discrete and continuous
constraints.

27. (Amended) A machine readable medium [have]having computer executable instructions
stored thereon for causing a computer to perform a method of scheduling tasks comprising:

creating a list of activities required to accomplish the tasks;

modifying selected activities into sets of smaller activities; and

scheduling the activities and smaller activities based on discrete and continuous constraints, wherein the continuous constraints are related to other variables by linear mathematical relationships.

28. (Amended) A machine readable medium [have]having computer executable instructions stored thereon for causing a computer to perform a method of scheduling activities comprising:

defining discrete and continuous constraints related to the activities, wherein the continuous constraints are related to other variables by linear mathematical relationships;

representing selected scheduling decisions as discrete and continuous constraints; and

scheduling activities in accordance with an integrated implications of the discrete and continuous constraints.

29. (Amended) A machine readable medium [have]having computer executable instructions stored thereon for causing a computer to perform a method of modifying scheduled tasks comprising:

updating information related to the scheduled tasks;

modifying a list of activities required to accomplish the tasks based on the updated information;

optionally modifying the activities into sets of smaller activities;

modifying discrete constraints related to the activities;

modifying continuous constraints related to the activities, wherein the continuous constraints are related to other variables by linear mathematical relationships; and

scheduling the activities and smaller activities based on discrete and continuous constraints.

32. (Amended)   A system for scheduling tasks comprising:

a continuous constraint solver engine;